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10/087,841 03/05/2002 Kuo-Rong Chen CHEN3340/EM 5196 23364 7590 09/07/2005 EXAMINER BACON & THOMAS, PLLC 625 SLATERS LANE FOURTH FLOOR ALEXANDRIA, VA 22314 Kuo-Rong Chen CHEN3340/EM 5196 EXAMINER GENACK, MATTHEW W ART UNIT PAPER NUMBER 2645	APPLICATION NO). F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
BACON & THOMAS, PLLC 625 SLATERS LANE FOURTH FLOOR GENACK, MATTHEW W ART UNIT PAPER NUMBER	10/087,841 03/05/2002		03/05/2002	Kuo-Rong Chen	CHEN3340/EM	5196
625 SLATERS LANE FOURTH FLOOR ART UNIT PAPER NUMBER	23364	7590	09/07/2005		EXAMINER	
FOURTH FLOOR ART UNIT PAPER NUMBER	BACON	& THOMA	AS, PLLC	GENACK, MATTHEW W		
ALEXANDRIA, VA 22314 2645			2		ART UNIT	PAPER NUMBER
	ALEXAN	DRIA, VA	22314		2645	

DATE MAILED: 09/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/087,841	CHEN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Matthew W. Genack	2645				
The MAILING DATE of this communication apprehension for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 23 Ju	ne 2005.					
.—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-20 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or						
Application Papers						
9)☐ The specification is objected to by the Examine	г.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	4) ☐ Interview Summary Paper No(s)/Mail Da 5) ☐ Notice of Informal P					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	. T. C				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maruyama et. al., U.S. Patent No. 6,430,498 in view of Yun, U.S. Patent No. 5,945,949.

Regarding Claims 1 and 9, Maruyama *et. al.* discloses a portable terminal and a way of using said portable terminal to accomplish the function of walking navigation (Abstract, Fig. 9). The portable terminal communicates with an application server, which exists in the Internet or in an intranet (Column 9 Lines 5-9, Fig. 9). This connection is made by way of a base station (Column 9 Lines 9-14, Fig. 9). The portable terminal connects with the application server and requests information from the application server pertaining to facilities such as restaurants that the user may walk to (Column 9 Lines 5-27, Fig. 9). The user selects a destination, or searches for a destination that matches certain criteria, and a route to said destination is computed based on the current location of the portable terminal (Abstract, Column 2 Lines 55-61, Column 3 Lines 21-35). Maruyama *et. al.* discloses that any one of several methods may be used to ascertain the location of the portable terminal (Column 4 Lines 6-14). The application server contains a spatial information database that stores information pertaining to facilities such as restaurants (Column 9 Lines 24-27, Fig. 9); the user has

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a search conducted for facilities of a certain type (such as a restaurant or movie theater) that may be walked to with the aid of provided directions; descriptions of multiple facilities, stored in the aforementioned database, are provided to the user. (Column 7 Lines 31-64, Fig. 4).

Maruyama *et. al.* does not expressly disclose the use of the location information of the base station in the invention.

Yun discloses a method and apparatus for the determination of the position of a wireless mobile communication device involving two-way wireless communication between said wireless mobile communication device and a primary base station, with auxiliary base stations also receiving signals from the mobile communication device and transmitting signals (which depend on the aforementioned received signals) to the primary base station (Abstract). The primary base station uses a transmit time stamp, transmitted to the mobile communication device, and a receive time stamp from the mobile communication device, and compares the times, correcting for internal circuit delays. This gives a range value from the first base station to the mobile communication device, and passive listening by neighboring base stations gives second and third range values. The first base station's processor uses the three range values to determine the mobile communication device's position vector. This location, along with other information (such as directions), is transmitted to the user of the mobile communication device (Column 2 Line 40 to Column 3 Line 8, Fig. 6). Therefore, it is inherent that the positions of the base stations are known, since it is disclosed that the

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position of the mobile communications device can be computed from this echo technique.

At the time that the invention was made, it would have been obvious to one of ordinary skill in the art to modify the invention of Maruyama *et. al.* by using the location information of the base station in the determination of the position of the portable terminal, and thereby assisting the user in arriving at the desired destination.

One of ordinary skill in the art would have been motivated to make this modification because of the simplicity and lack of expense of land-based position determination methods relative to such methods as GPS (Yun, Column 3 Lines 10-16).

Regarding Claims 2-3 and 10-11, Maruyama *et. al.*, as modified by Yun, teaches every limitation of Claims 1 and 9, upon which Claims 2-3 and 10-11 depend, as outlined above.

Maruyama et. al. and Yun as applied to Claims 1 and 9 above differ from Claims 2-3 and 10-11 in that Maruyama et. al. does not expressly disclose the use, either by request from the server or on the initiative of the base station, of the latitude and longitude of said base station in the determination of the position of the portable terminal.

Given the method of position determination of Yun's invention, as outlined above, it is inherent that the latitudes and longitudes of each base station are either stored in each respective base station and provided upon request to a central computation facility, or are previously stored in said computation facility.

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At the time that the invention was made, it would have been obvious to one of ordinary skill in the art to modify the invention of Maruyama *et. al.* by using the location information of the base station in the determination of the position of the portable terminal (either by request from the server or by the initiative of the base station), and thereby assisting the user in arriving at the desired destination.

One of ordinary skill in the art would have been motivated to make this modification because of the simplicity and lack of expense of land-based position determination methods relative to such methods as GPS (Yun, Column 3 Lines 10-16).

Regarding Claims 4 and 12, Maruyama *et. al.* further discloses that the portable terminal may measure its own position via the use of GPS (Column 4 Lines 6-14). In this case, it is inherent that the Internet-based navigation system, which guides the user to a selected destination, receives the position information of the portable terminal from the portable terminal itself, rather than from the land based infrastructure (*e.g.*, base stations).

Regarding Claims 5 and 13, Maruyama et. al., as modified by Yun, discloses every limitation of Claims 1 and 9, upon which Claims 5 and 13 depend, as outlined above. Furthermore, Maruyama et. al. discloses a specific type of service referred to as "Neighborhood Guidance Service," whereby a search for facilities of a certain type, (restaurants, etc.) in the vicinity of the current location of the portable terminal, is requested by the user (Column 3 Lines 26-29).

Regarding Claims 6 and 14, Maruyama et. al., as modified by Yun, discloses every limitation of Claims 1 and 9, upon which Claims 6 and 14 depend, as outlined

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above. Furthermore, Maruyama et. al. discloses that the portable terminal may be a cellular telephone (Column 1 Lines 5-10, Column 2 Lines 55-61).

Regarding Claims 7 and 15, Maruyama et. al., as modified by Yun, discloses every limitation of Claims 1 and 9, upon which Claims 6 and 14 depend, as outlined above.

Maruyama et. al. does not expressly disclose the use of the invention within the context of car travel.

Yun teaches the usefulness of mobile position determination within the context of car travel (Column 1 Lines 31-47, Fig. 5).

At the time that the invention was made, it would have been obvious to one of ordinary skill in the art to modify the invention of Maruyama *et. al.* as already modified by Yun, by adapting the device for use in a car.

One of ordinary skill in the art would have been motivated to make this modification because of the usefulness of such a system for walling as well as car travel.

Regarding Claims 8 and 16, Maruyama *et. al.*, as modified by Yun, discloses every limitation of Claims 1 and 9, upon which Claims 8 and 16 depend, as outlined above. Furthermore, Maruyama *et. al.* discloses that the portable terminal may measure its own position via the use of GPS (Column 4 Lines 6-14). In this case, it is inherent that the Internet-based navigation system, which guides the user to a selected destination, receives the position information of the portable terminal from the portable terminal itself, rather than from the land based infrastructure (*e.g.*, base stations).

3. Claims 17 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maruyama *et. al.* in view of Yun, further in view of Mochizuki, U.S. Patent Application Publication 2001/0037305.

Maruyama et. al., as modified by Yun, discloses every limitation of Claims 1 and 9, upon which Claims 17 and 19 depend, respectively.

Neither Maruyama *et. al.* nor Yun expressly discloses the storage and transfer of information pertaining to parking lots.

Mochizuki discloses an interactive navigation system wherein map data is transmitted from a server to a mobile user device (Abstract, [0028]). Information pertaining to the locations, vacancies, and fees of parking lots is stored in the server and transmitted to the user ([0235]-[0239], Fig. 1).

At the time that the invention was made, it would have been obvious to one of ordinary skill in the art to modify the invention of Maruyama et. al. as modified by Yun by providing for the storage and transfer of information pertaining to parking lots in the vicinity of the user, whereby said information comprises the total number of parking spaces, the number of available parking spaces, and the cost of each parking lot.

One of ordinary skill in the art would have been motivated to make this modification because mobile users in search of various facilities typically use automobiles, which should be parked in appropriate locations when not in use.

4. Claims 18 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maruyama et. al. in view of Yun, further in view of Diggelen, U.S. Patent Application Publication 2002/0137523.

Maruyama et. al., as modified by Yun, discloses every limitation of Claims 1 and 9, upon which Claims 18 and 20 depend, respectively.

Neither Maruyama *et. al.* nor Yun expressly discloses the storage and transfer of information pertaining to gas stations.

Diggelen discloses a method and apparatus for providing location-based information to a user via a wireless communication system (Abstract, [0008], Fig. 1). The user of a wireless mobile device may be provided with information that includes the operating hours of a gas station ([0033]-[0035], Fig. 2).

At the time that the invention was made, it would have been obvious to one of ordinary skill in the art to modify the invention of Maruyama et. al. as modified by Yun by providing for the storage and transfer of information pertaining to gas stations in the vicinity of the user, whereby said information comprises the operating hours of each gas station.

One of ordinary skill in the art would have been motivated to make this modification because mobile users in search of various facilities typically use automobiles, which require gas.

Response to Arguments

5. Applicant's arguments filed 23 June 2005 have been fully considered but they are not persuasive. Contrary to Applicant's assertion, in the paragraph on Pages 7-8, that the text of Column 7 Lines 62-64 does not suggest the new limitation of amended Claims 1 and 9 because the transfer of a single facility description is mentioned therein, this text does not specifically limit the transfer to a single facility description. The user

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may be simultaneously informed of the types of stores existing on a specific street (Column 7 Lines 43-48). The type that a given store belongs to constitutes a description of that store (a store being a facility).

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew W. Genack whose telephone number is 571-272-7541. The examiner can normally be reached on FLEX.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Fan Tsang can be reached on 571-272-7547. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Matthew Genack

Examiner

Art Unit 2645

23 August 2005

FAN TSANG

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